WHAT IS CLAIMED IS:

1. In a process for preparing door skins and other door components by the molding of sheet molding compound containing an ~~unsaturated,~~ curable molding resin in a heated mold under pressure, the improvement comprising:

selecting, as a cure catalyst composition,

a) an effective amount of a catalyst component containing a major amount, based on the amount of catalyst, of t-amylperoxybenzoate, and

b) an effective amount of a polymerization inhibitor composition.

2. The process of claim 1, wherein said catalyst component is present in an amount of 0.5 to 5 parts per 100 parts of said molding resin, and said inhibitor composition is present in an amount of 0.01 part to about 1 part per 100 parts molding resin, calculated on the basis of a 5 weight percent concentration of inhibitor in said polymerization inhibitor composition.

3. The process of claim 2 wherein said inhibitor is p-benzoquinone.

4. The process of claim 1, wherein said catalyst component is present in an amount of 0.8 to 2.0 parts per 100 parts of said molding resin, and said inhibitor is present in an amount of 0.05 part to about 0.4 parts per 100 parts molding resin.

5. The process of claim 1 wherein the cure time is less than 60 seconds.

6. The process of claim 1 wherein the cure time is less than 50 seconds.

7. The process of claim 1 wherein a vacuum is applied upon closure of the tool in which said sheet molding compound is molded.

8. The process of claim 7 wherein said vacuum is between 15 and 29 inches mercury and is released from 5 to 30 seconds after its application.

9. A door having a compression molded SMC door skin and applied inserts or add-on panels, the improvement comprising securing said applied inserts or panels to a surface of said door skin using adhesive tape as the sole securing means.

10. The process of claim 9 wherein said add-on panels are applied to said doorskin without first making a hole through said doorskin.

11. A process for reducing surface defects on a stainable compression molded SMC doorskin without creating a non-uniformly stainable surface, said process comprising:

a) selecting as an SMC, an SMC which exhibit a cure time of one minute or less;

b) upon closure of a door skin mold containing said SMC, applying a vacuum of from about 10 inches Hg to 29 inches Hg; and

c) maintaining said vacuum for a period of from about 5 seconds to about 30 seconds.

12. The process of claim 11 wherein said cure time is 50 seconds or less.

13. The process of claim 11, wherein said vacuum is from about 15 to 29 inches Hg, and the pressure of the mold is from about 200 psig to about 1500 psig.

14. The process of claim 11, wherein the vacuum is applied for from 10 to 23 seconds.

15. A compression molded SMC doorskin or molded part, comprised of the cured reaction product of an SMC containing a cure catalyst composition containing a catalyst system effective to cure said doorskin in less than one minute at 150°C.

16. The doorskin or molded part of claim 15 wherein said SMC contains an inhibitor in an amount of 0.01 part to about 2.0 part per 100 parts of a curable unsaturated resin component in said SMC, and a catalyst component comprising in major part t-amylperoxybenzoate.

17. In a fiberglass-reinforced door skin produced by compression molding sheet molding compound containing from about 5 parts to about 300 parts fiberglass per 100 parts of curable resin, the improvement comprising replacing up to about 25 weight percent of fiberglass with wollastonite.